

Q1 cont'd
and 62 for engaging ball bearings 34 and 38, respectively, and an outer peripheral surface 66 at a second end for engaging an inner peripheral surface 70 of sleeve coupler 26. Sleeve coupler 26 includes a radially outwardly extending flange 74 for engaging the side of bottom bracket shell 18.--

IN THE CLAIMS

Please amend claims 1, 7, 24, 31, 35 and 36 as follows:

Q2 sub 1
1. (Amended) A drive mechanism for a bicycle transmission assist mechanism comprising:
a crank arm having a crank axle mounting hole around a rotational axis; and
a drive member supported coaxial with the rotational axis and including:
a first abutment facing a forward rotational direction of the crank arm; and
a non-concave first sloped surface extending from a radially outer portion of the abutment and facing a rearward rotational direction of the crank arm.

Q3 sub 2
7. (Amended) A drive mechanism for a bicycle transmission assist mechanism comprising:
a crank arm having a rotational axis; and
a drive member comprises an annular drive ring mounted around the rotational axis and including:
a first abutment facing a forward rotational direction of the crank arm; and
a non-concave first sloped surface extending from a radially outer portion of the abutment and facing a rearward rotational direction of the crank arm; and
wherein an inner peripheral surface of the drive ring includes a plurality of drive ring splines, and wherein an outer peripheral surface of the crank arm includes a plurality of crank arm splines that engage the plurality of drive ring splines.

Q4 sub 4
24. (Amended) A drive mechanism for a bicycle transmission assist mechanism comprising:
a crank arm having a rotational axis;
wherein the crank arm includes a sprocket mounting member for mounting a sprocket to the crank arm;

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concluded
a large diameter sprocket retained to the sprocket mounting member;

a small diameter sprocket retained to the sprocket mounting member; and

a drive member including:

a first abutment facing a forward rotational direction of the crank arm; and

a non-concave first sloped surface extending from a radially outer portion of the abutment and facing a rearward rotational direction of the crank arm;

wherein the large diameter sprocket includes a shift assist mechanism for assisting travel of a chain between the small diameter sprocket and the large diameter sprocket.

31. (Amended) A drive mechanism for a bicycle transmission assist mechanism comprising:

a crank arm having a rotational axis; and

a drive member including:

a first abutment facing a forward rotational direction of the crank arm; and

a non-concave first sloped surface extending from a radially outer portion of the abutment and facing a rearward rotational direction of the crank arm;

wherein the crank arm has a crank axle mounting hole, and further comprising a plurality of splines disposed in the crank axle mounting hole. ✓

35. (Amended) A drive mechanism for a bicycle transmission assist mechanism comprising:

a bicycle crank arm having a crank axle mounting boss including a crank axle mounting hole and a rotational axis; and

only two abutments disposed on an outer surface of the crank axle mounting boss and facing a forward rotational direction of the crank arm;

wherein the two abutments rotate coaxially around the rotational axis.

36. (Amended) A drive mechanism for a bicycle transmission assist mechanism comprising:

a bicycle crank arm having a crank axle mounting boss including a crank axle mounting hole and a rotational axis; and

a drive member disposed at the crank axle mounting boss and including:

an outer peripheral surface;

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wherein an abutment is disposed on the outer peripheral surface and faces a forward rotational direction of the crank arm;
wherein the abutment rotates around the rotational axis at a substantially constant radius; and
wherein the outer peripheral surface at a location of intersection with a radially inner portion of the abutment extends convex for at least 20°.

Please cancel claim 37.

Please add the following new claim:

38. (New) A drive mechanism for a bicycle transmission assist mechanism comprising:
a crank arm having a rotational axis; and
a drive member nonrotatably fixed to the crank arm including:
a first abutment facing a forward rotational direction of the crank arm;
wherein the abutment rotates around the rotational axis at a substantially constant radius; and
a non-concave first sloped surface extending from a radially outer portion of the abutment and facing a rearward rotational direction of the crank arm.

REMARKS

Claims 1-36 are pending. Claim 37 has been canceled. Claim 38 has been added.

Attached hereto is a marked-up version of the changes made to the application by the current amendment. The attached page is captioned "VERSION OF AMENDMENTS WITH MARKINGS TO SHOW CHANGES MADE."